

**Title: METHOD AND SYSTEM FOR AUTOMATICALLY DISPLAYING CONTENT OF A WINDOW
ON A DISPLAY THAT HAS CHANGED ORIENTATION**

**Inventors: Thomson et al.
Docket No: M&G 50037.0212US01**

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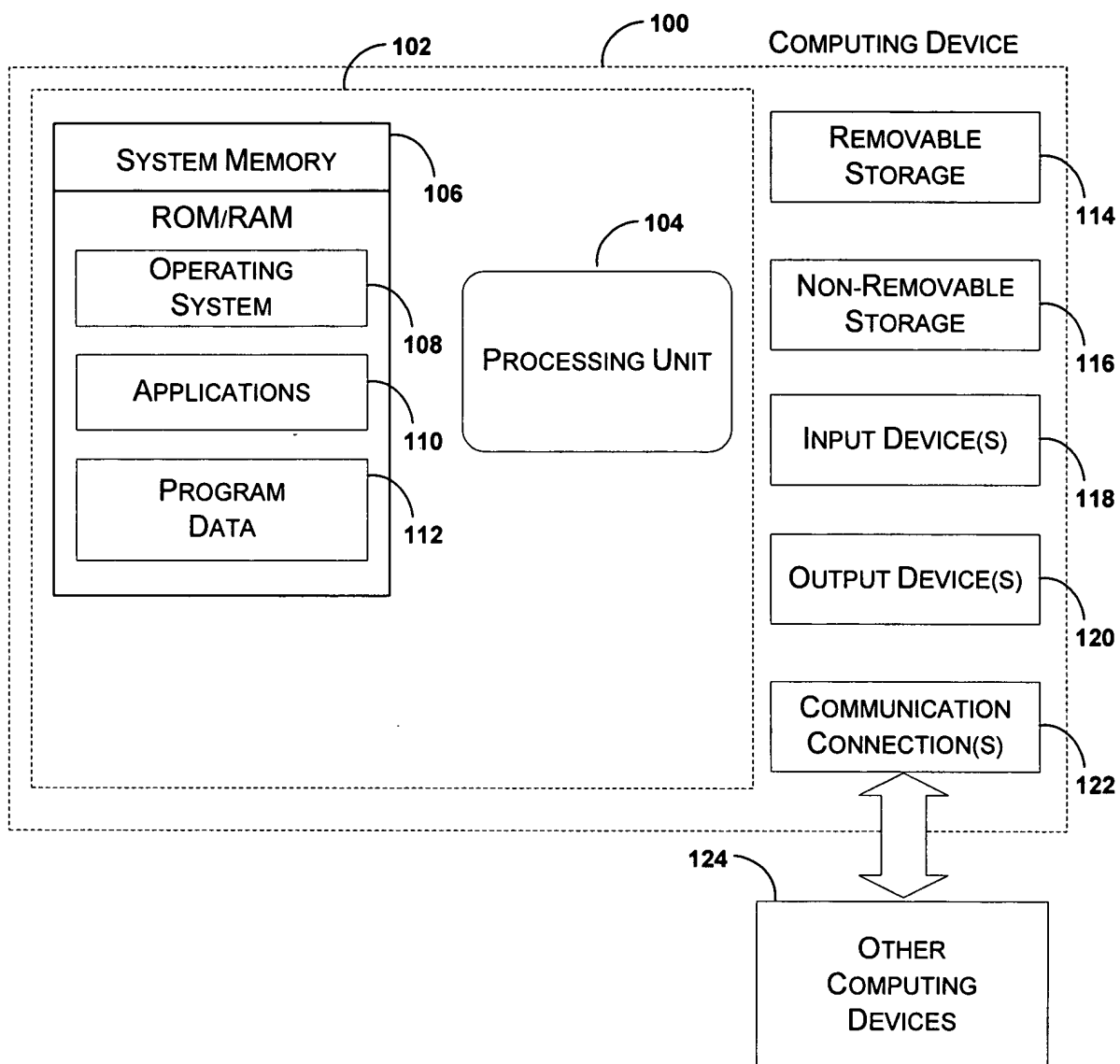


Fig. 1

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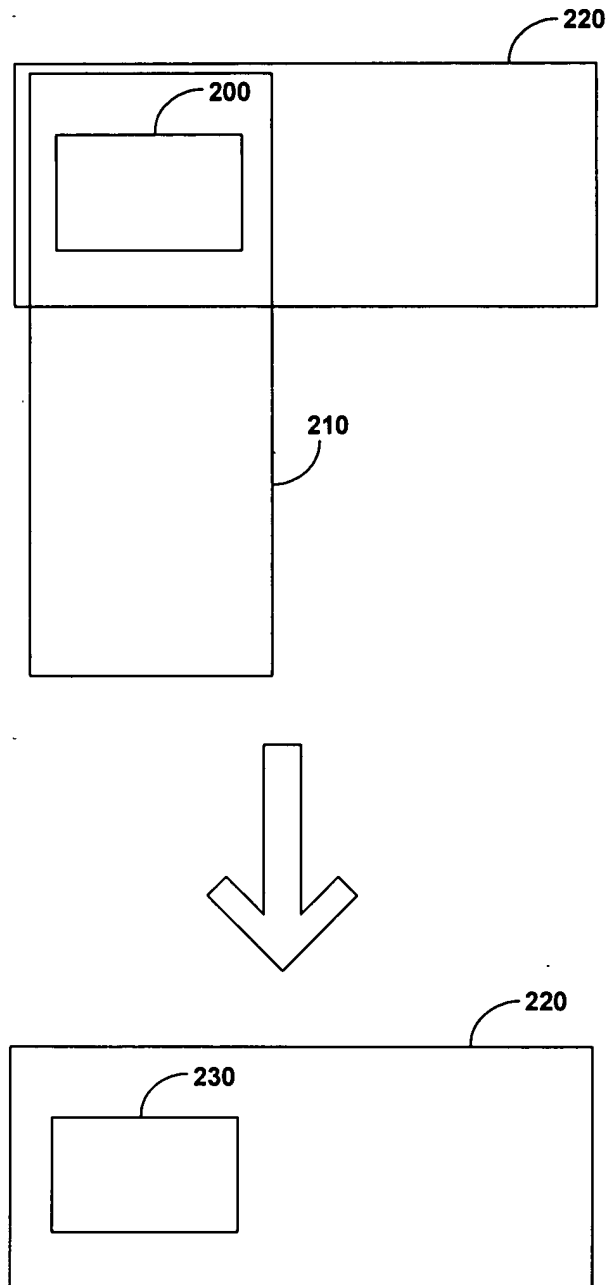


Fig. 2

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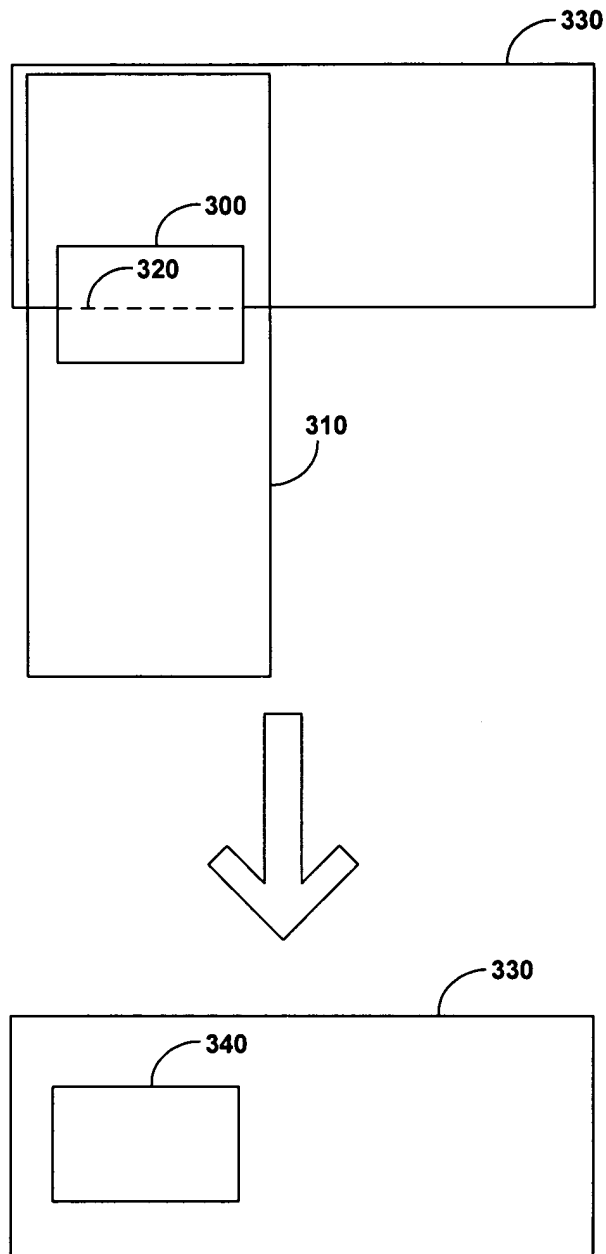


Fig. 3

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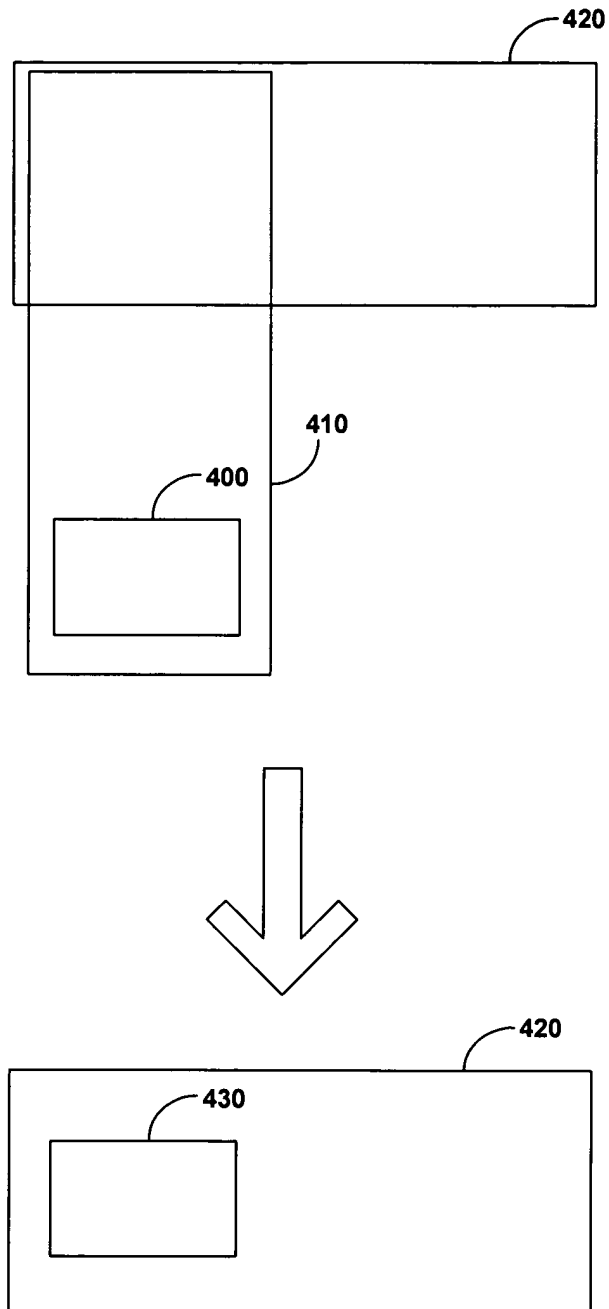


Fig. 4

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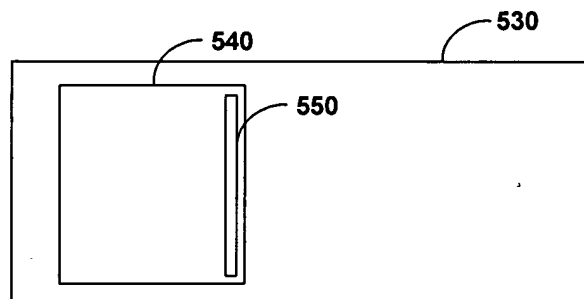
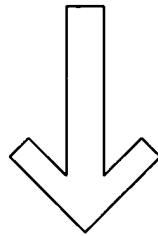
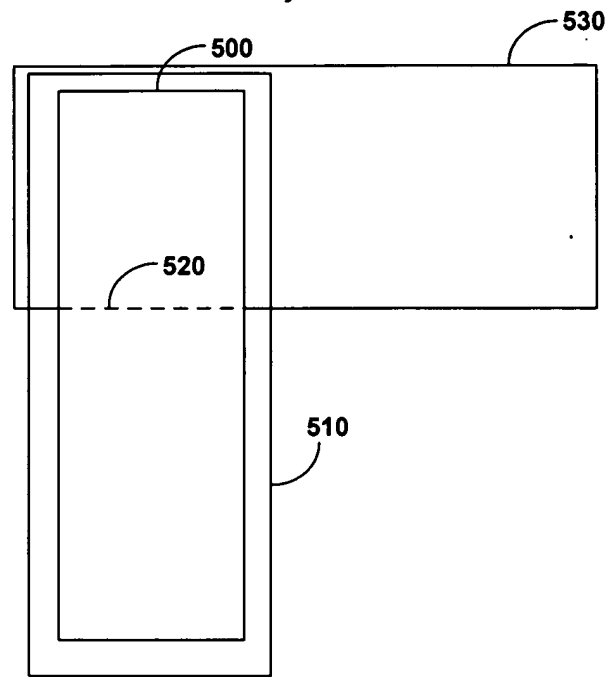


Fig. 5

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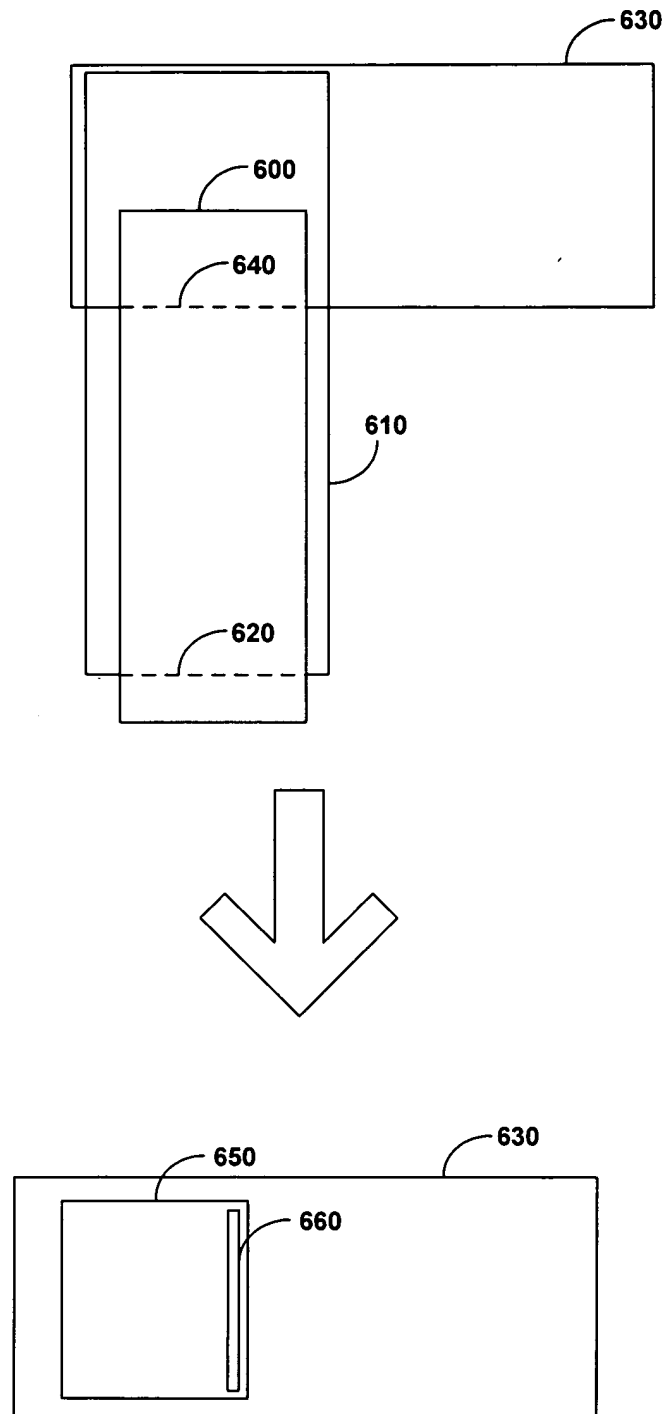


Fig. 6

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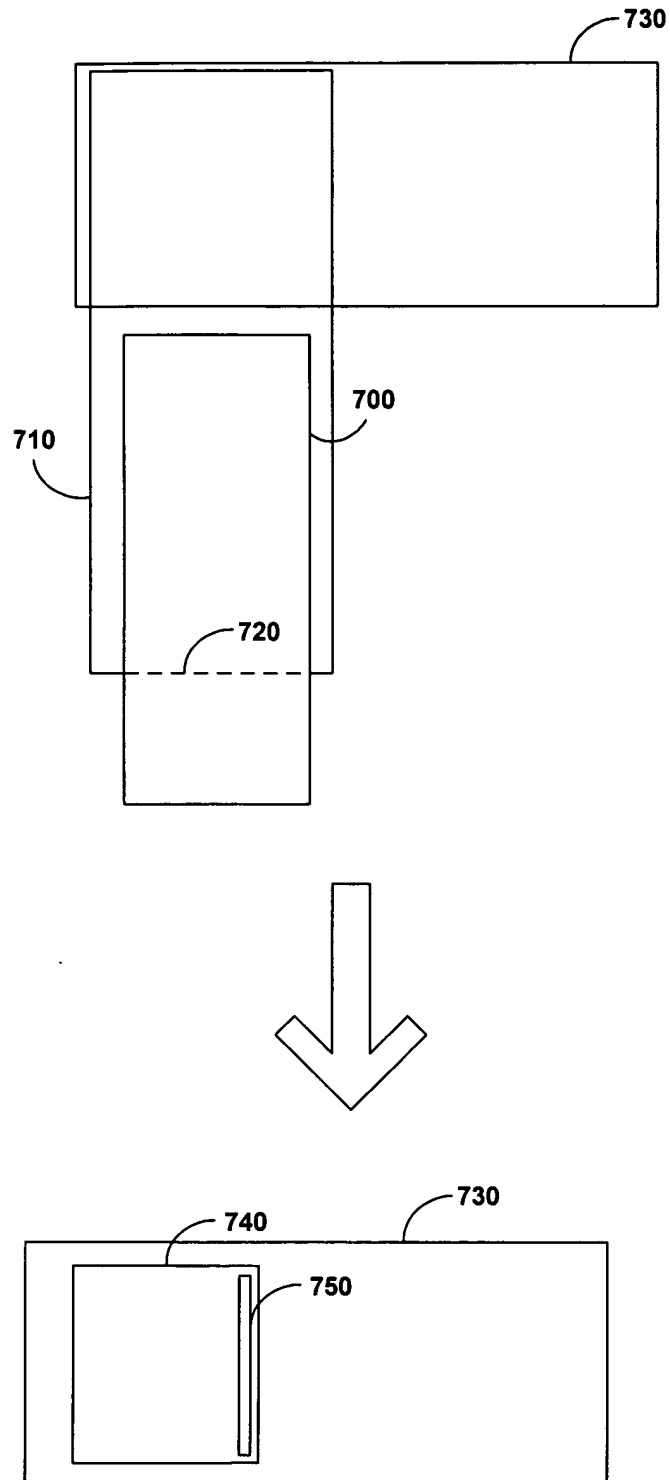


Fig. 7

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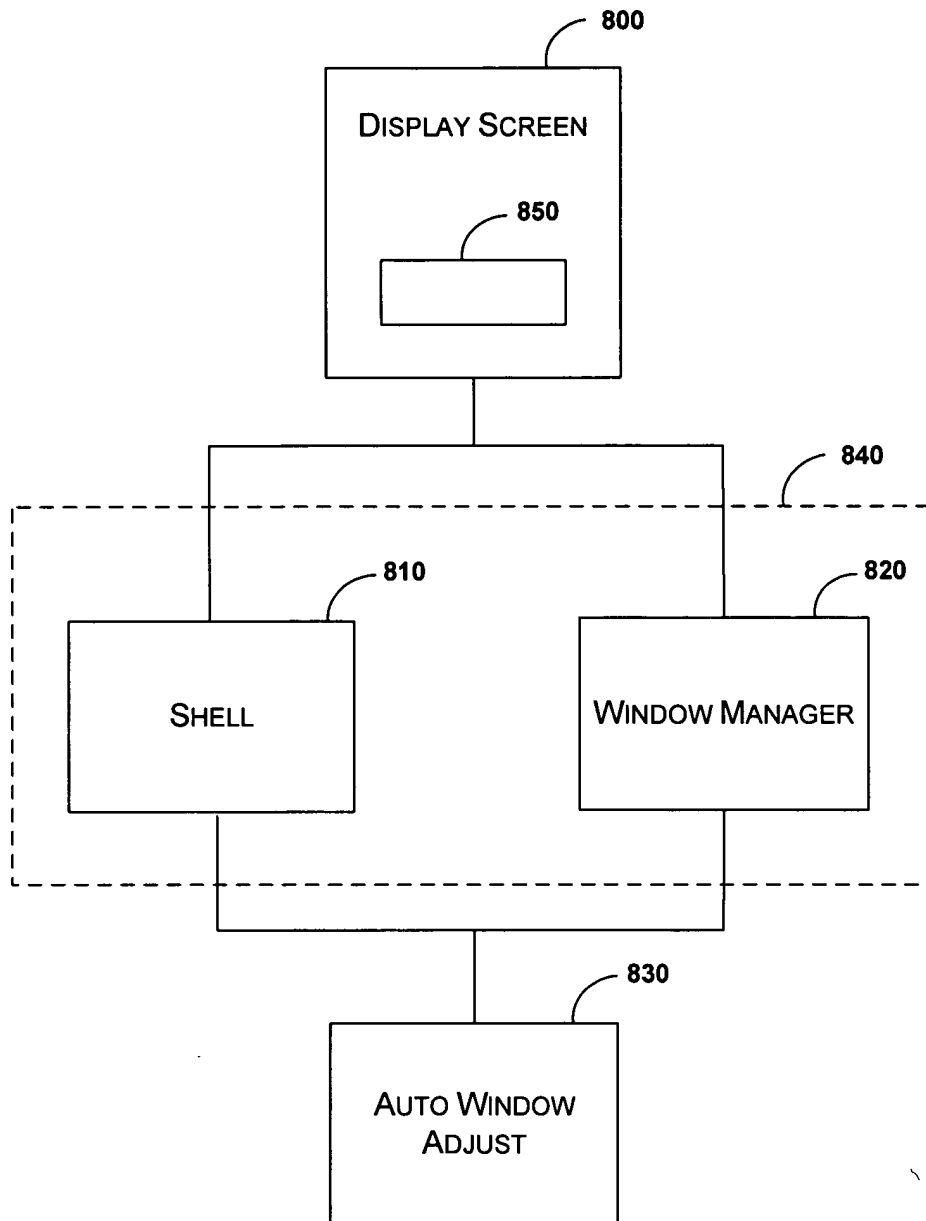


Fig. 8

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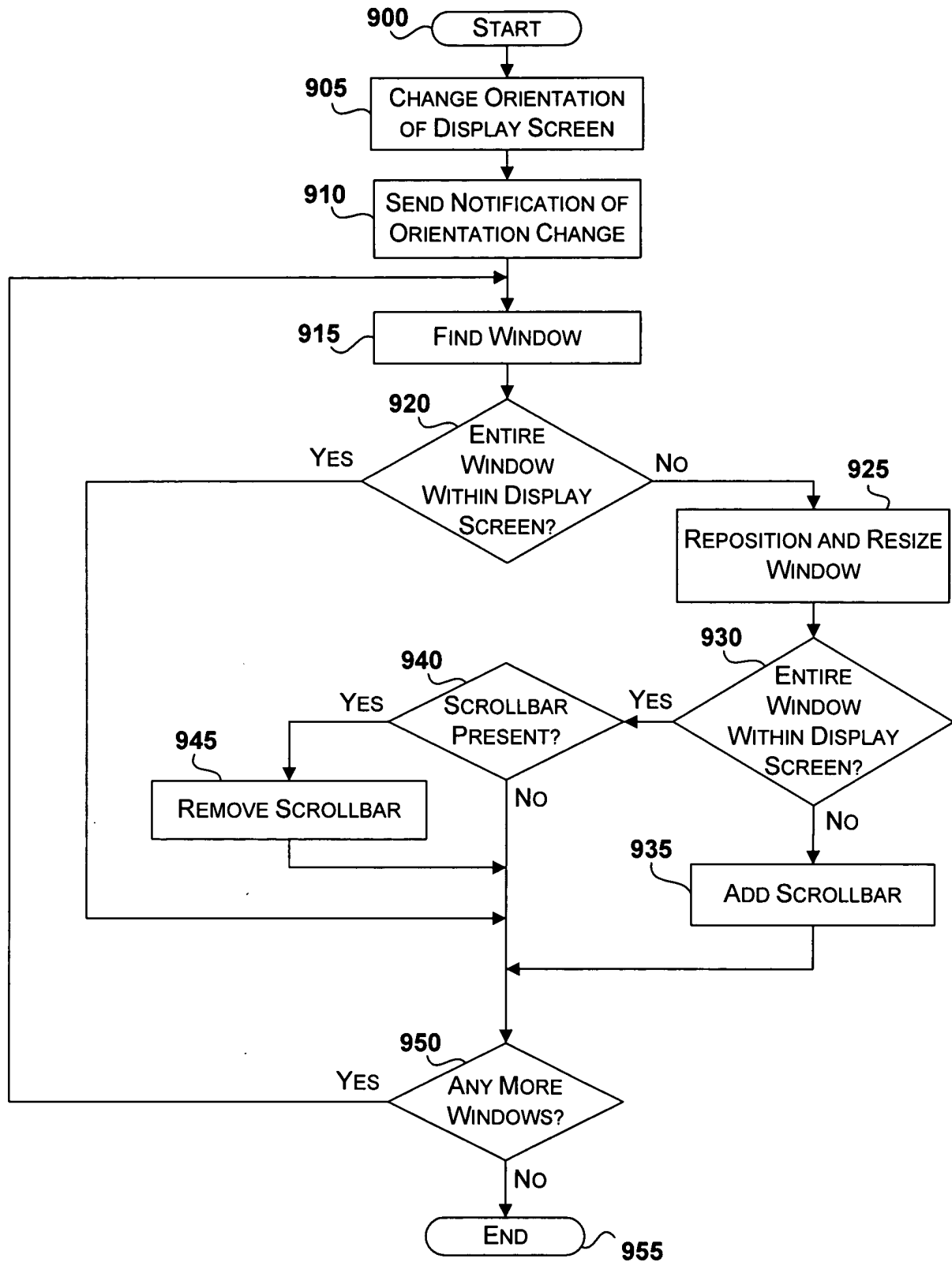


Fig. 9

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hwnd:
window handle of the window

wParam:
WMSCD_DIALOGSCROLLBAR - message used by the shell to add/remove
scrollbars on a display screen orientation change.

This will be defined in public\common\oak\inc\pwinuser.h as:

```
#define WMSCD_DIALOGSCROLLBAR    0x02
```

lParam:
pCopyDataStruct = (COPYDATASTRUCT*) lParam
If pCopyDataStruct->dwData == TRUE the vertical scrollbar will be added
If pCopyDataStruct->dwData == FALSE the vertical scrollbar will be
removed

prcClient = (RECT*) pCopyDataStruct->lpData
prcClient points to client rect of window in client coordinates that window
manager will use to compute the viewable area the end user will be able to
scroll to. The shell should use the client rect of the window before the shell
resizes the window.

Return Value:
TRUE if succeeded to remove/add the scrollbar
FALSE if failed to remove/add the scrollbar
Here is sample code that uses this message:

```
1000  hwnd = FindWindowThatNeedsToBeResizedBecauseOfScreenRotation();  
      if(hwnd)  
      {  
1010      COPYDATASTRUCT    cds;  
      GetClientRect(hwnd, &rcBuffer);  
1020      cds.dwData = TRUE;  
1030      cds.cbData = sizeof(RECT);  
1040      cds.lpData = &rcBuffer;  
1050      // shrink the height by 80 pixels  
      SetWindowPos(hwnd, 0, 0, 0, rcBuffer.right - rcBuffer.left,  
rcBuffer.bottom - rcBuffer.top - 80,  
SWP_NOZORDER|SWP_NOACTIVATE|SWP_NOMOVE);  
1060      // use timeout in case app is hung  
      lret = SendMessageTimeout(hwnd, WM_SYSCOPYDATA,  
WMSCD_DIALOGSCROLLBAR, (LPARAM)&cds, SMTO_NORMAL, 1000,  
&dw);  
      }
```

Fig. 10